

												↓ This auth discovered TDU emissions were over 21 tpy uncontrolled., and proposed to control them as of this point in time.												
		Changes from prior Authorizations indicated in Grey background		8/6/2008		3/18/2009		8/6/2009		3/18/2010		8/6/2010		8/6/2010		8/6/2010		8/6/2010		8/6/2010				
		lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy			
Totals	Cumulative emissions at the site as each authorization was issued.	VOC	6.72	5.91	6.72	12.03	7.22	13.85	5.93	11.63	5.93	24.52				6.37	26.47	17.53	52.93	12.34	50.58	16.91	47.69	
	Note: there are no landfill emissions represented anywhere.	HAP (is part of VOC)	0.02	0.09	0.02	6.21	0.01	6.16	0.07	6.44	0.07	6.44				0.46	8.16	4.67	18.16	5.09	19.94	9.66	24.94	
		Nox	5.29	23.20	5.29	23.20	5.00	16.92	5.00	16.92	5.00	16.92				5.00	16.92	5.00	16.92	4.02	17.60	4.02	17.60	
		CO	1.28	4.31	1.28	4.31	2.00	5.81	1.50	4.90	1.50	4.90				1.71	5.80	1.71	5.80	2.17	9.50	2.17	9.50	
		PM10	2.05	1.23	2.05	1.41	1.09	1.50	0.51	1.48	0.51	1.66				0.51	1.66	1.17	3.67	1.14	4.50	1.15	4.63	
		SO2	0.68	0.44	0.68	0.44	1.61	0.52	1.03	0.51	1.03	0.51				1.03	0.51	1.03	0.51	0.11	0.45	0.11	0.45	
		HCL	0.00	0.00	0.00	0.00	1.31	2.31	0.00	0.00	0.00	0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		PM2.5	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.10	0.02	0.28				0.02	0.28	0.68	2.29	0.98	3.61	0.99	3.74	
		HAP (is part of PM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	
		Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00	0.03	0.08	0.03	0.08	0.03	0.08	
		Ammonia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00	10.78	25.57	10.78	25.57	10.78	25.57	
EPN	Description	Contaminant	Representations in TCEQ Authorizations																					
EP-1	TDU Nat Gas comb	VOC			0.17	0.77	0.17	0.77	0.17	0.77	0.17	0.77				0.17	0.77	0.17	0.77	0.01	0.01	0.01	0.01	
		HAP (is part of VOC)																						
		Nox	5.29	23.20	5.29	23.20	4.60	15.22	4.60	15.22	4.60	15.22				4.60	15.22	4.60	15.22	3.22	14.10	3.22	14.10	
		CO	0.78	3.40	0.78	3.40	1.15	3.40	1.15	3.40	1.15	3.40				1.15	3.40	1.15	3.40	0.78	3.40	0.78	3.40	
		PM10	1.45	1.11	1.45	1.11	0.46	1.06	0.46	1.06	0.46	1.06				0.46	1.06	0.46	1.06	0.24	1.06	0.24	1.06	
		SO2	0.08	0.33	0.08	0.33	1.00	0.40	1.00	0.40	1.00	0.40				1.00	0.40	1.00	0.40	0.08	0.33	0.08	0.33	
		HCL																						
		PM2.5																			0.24	1.06	0.24	1.06
EP-2	TDU vent stream	VOC	1.31	2.31	1.31	2.31	1.31	2.31								0.44	1.95	0.44	1.95	0.45	1.95	0.45	1.95	
		HAP (is part of VOC)			0.01	0.04	0.05	0.23	0.05	0.23						0.44	1.95	0.44	1.95	0.45	1.95	0.45	1.95	
		Nox																						
		CO	0.50	0.91	0.50	0.91	0.50	0.91								0.21	0.90	0.21	0.90	0.21	0.90	0.21	0.90	
		PM10	0.60	0.12	0.60	0.12	0.60	0.12	0.02	0.10	0.02	0.10				0.02	0.10	0.02	0.10	0.02	0.10	0.02	0.10	
		SO2	0.60	0.11	0.60	0.11	0.60	0.11	0.02	0.10	0.02	0.10				0.02	0.10	0.02	0.10	0.02	0.10	0.02	0.10	
		HCL					1.31	2.31								0.02	0.10	0.02	0.10	0.02	0.10	0.02	0.10	
		PM2.5							0.02	0.10	0.02	0.10												
EP-3	Process Cooler	CO																			0.50	2.20	0.50	2.20
EP-4	Storage Tanks (after 9/2009, roll off bxs)	VOC	0.27	1.61	0.27	1.61	0.58	2.56	0.58	2.56	0.58	2.56				0.58	2.56	0.58	2.56	0.27	1.16	0.27	1.16	
		HAP (is part of VOC)	0.02	0.09	0.02	0.09										0.26	1.12	0.26	1.12	0.26	1.12	0.26	1.12	
EP-5	Fugitive Equipment Lks	VOC	0.28	1.24	0.28	1.24	0.28	1.24	0.28	1.24	0.28	1.24				0.28	1.24	0.28	1.24	0.28	1.24	0.28	1.24	
		HAP (is part of VOC)																						
EP-6	Truck Loading	VOC	4.86	0.75	4.86	0.75	4.86	0.75	4.86	0.75	4.86	0.75				4.86	0.75	4.86	0.75	0.17	0.75	0.17	0.75	
		HAP (is part of VOC)														0.17	0.75	0.17	0.75	0.17	0.75	0.17	0.75	
EP-7	4.2 MM btu steam boiler	VOC			0.02	0.1	0.02	0.1	0.02	0.1						0.02	0.1	0.02	0.1					
		HAP (is part of VOC)																						
		Nox			0.40																			

Date	"Source"	Authorization	Description	EPNs												Comments on the authorization
				EP-1 TDU POC	EP-2 TDU-Vent	EP-2Fug TDU piping	EP-3 Pdct Cool	EP-4 4 stg tks	EP-5 EquipFug	EP-6 TruckLdg	EP-7 Steam Blr	MSS bgHse &Duct	STAB1 Stab Bldg 1	Stab 2 Stab Bldg 2	Stab3 Stab Bldg 3	CatFug 12
5/14/2008	TDU	84525	All sources related to TDU	New	New		New	New	New							
			TDU (PBRs 183; 261; 262;473)													
9/11/2009	Stab 1	31382	Auth Stabilization Bldg 1 (PBRs 261, 262)								New					
9/18/2009	TDU and Centrif	84525	TDU (PBRs 183; 261; 262;473) Added steam blr, hr, Centrifuge added centrif, blr, hr uncover the existing feed bins add voc to existing furnace and add hcl	Rev	Rev		Rev		New							
3/26/2010	Ctrl EP-2	Std Pmt 91975	actually routed EP-2 to furnace.		Rev	New										
5/27/2010	Stab 3	92320	Stabilization Building 3 ( PBRs 261, 262)								New					
6/23/2010	Rev Ctrl EP-2	Std Pmt 91975	Revised vent stream precontrol and ctrl eff		Rev											
6/24/2010	Rev various units	84525	Implement Sampling to limit VOC, Nox, etc TDU (PBRs 183; 261; 262;473)	Rev				New								
6/24/2010	Stab 2	Permit 90163	New permit for new Stab 2 building								New					
12/17/2010	Stab 3	Permit 92320	Affects emissions permitted in 90163								Rev					
4/12/2011	Catalyst Pkg	95333	Adds catalyst packaging operations	Rev			Rev	Rev	Rev		New	1. Adds catalyst packaging operation. 2. Impossible to accurately understand which EPNs are affected, and which are new due to this operation based on TCEQ TRV.				